

BACCALAUREATE PROGRAM TRANSFER FRAMEWORKS

for ENGINEERING

<i>Programs (Majors) Offered in Engineering*</i>	<i>Universities Offering the Programs</i>	<i>Degrees Offered</i>
Agricultural Engineering	UK	BS
Applied Science - Engineering Transfer	KSU	BS
Chemical Engineering	UK	BS
	UL	BSCHE
Civil Engineering, General	UK	BS
	UL	BSCE
Computer Engineering	UL	BSEMCS
Electrical, Electronics and Communications Engineering	UK	BS
	UL	BSEE
Engineering Physics	MUSU	BA/BS
Industrial/Manufacturing Engineering	UL	BSIE
Materials Engineering	UK	BS
Mechanical Engineering	UK	BS
	UL	BSME
Mining and Mineral Engineering	UK	BS

*A separate framework is included in this section for each program (major) on the list.

AGRICULTURAL ENGINEERING -- CIP 14.0301

TRANSFER MATRIX: Requirements of the Sending Institution

General Education Transfer Component (33 hours) + Institutional General Education (15 hours) = General Education Total (48 hours)

General Education Total (48 hours) + Specialty (12 hours) = Transfer Framework (60 hours)

NOTES: A shaded column indicates the college or university does not confer a baccalaureate degree in this program.
However, course numbers in shaded columns indicate that the transfer framework may be completed at that institution.

The General Education Transfer Component should be completed according to the general education requirements for this major at the sending institution, unless specific course recommendations are listed.

General Education courses may also be counted toward the major, a minor, or a second major.

	EKU	KSU	MOSU	MUSU	NKU	UK	UL	WKU	CC
General Education Transfer Component -- 48 hours									
<i>Communication - 9 hrs</i>									
Written Communication - 6 hrs									
Oral Communication - 3 hrs									
<i>Humanities - 6 hrs</i>									
<i>Behavioral/Social Sciences - 9 hrs</i>									
<i>Natural Sciences - 6 hrs</i>									
<i>Mathematics - 3 hrs</i>						MA 113			MA 113
Minimum College Algebra									
<i>Other Institutional General Education Requirements - up to 15 hrs</i>									
Specialty Transfer Component -- 12 hours									
Calculus - 4 hrs						MA 114			MA 114
Physics - 10 hrs						PHY 231* & 241* & 232* & 242*			PHY 231* & 241* & 232* & 242*
Chemistry - 6 hrs						CHE 105* & 107*			CHE 105* & 107*

* Course may also meet institutional general education requirements.

Up to 6 hours of science coursework included in the Specialty Component meet institutional natural science general education requirements.

APPLIED SCIENCE - ENGINEERING TRANSFER -- CIP 14.9999.01

TRANSFER MATRIX: Requirements of the Sending Institution

General Education Transfer Component (33 hours) + Institutional General Education (15 hours) = General Education Total (48 hours)
General Education Total (48 hours) + Specialty (12 hours) = Transfer Framework (60 hours)

NOTES: A shaded column indicates the college or university does not confer a baccalaureate degree in this program.
 However, course numbers in shaded columns indicate that the transfer framework may be completed at that institution.

The General Education Transfer Component should be completed according to the general education requirements for this major at the sending institution, unless specific course recommendations are listed.

General Education courses may also be counted toward the major, a minor, or a second major.

	EKU	KSU	MOSU	MUSU	NKU	UK	UL	WKU	CC
General Education Transfer Component -- 48 hours									
<i>Communication - 9 hrs</i>									
Written Communication - 6 hrs									
Oral Communication - 3 hrs									
<i>Humanities - 6 hrs</i>									
<i>Behavioral/Social Sciences - 9 hrs</i>									
<i>Natural Sciences - 6 hrs</i>									
<i>Mathematics - 3 hrs</i> Minimum College Algebra		MAT 201							MA 113
<i>Other Institutional General Education Requirements - up to 15 hrs</i>									
Specialty Transfer Component -- 12 hours									
Calculus - 5 hrs		MAT 202							MA 114
Chemistry - 4 hrs		CHE 101*							CHE 105* & CHM 105*
Physics - 10 hrs		PHY 211* & 212							PHY 231* & 232* & 241* & 242*

* Course may also meet institutional general education requirements.

Up to 6 hours of science coursework included in the Specialty Component meet institutional natural science general education requirements.

CHEMICAL ENGINEERING -- CIP 14.0701

TRANSFER MATRIX: Requirements of the Sending Institution

General Education Transfer Component (33 hours) + Institutional General Education (15 hours) = General Education Total (48 hours)

General Education Total (48 hours) + Specialty (12 hours) = Transfer Framework (60 hours)

NOTES: A shaded column indicates the college or university does not confer a baccalaureate degree in this program.
However, course numbers in shaded columns indicate that the transfer framework may be completed at that institution.

The General Education Transfer Component should be completed according to the general education requirements for this major at the sending institution, unless specific course recommendations are listed.

General Education courses may also be counted toward the major, a minor, or a second major.

	EKU	KSU	MOSU	MUSU	NKU	UK	UL	WKU	CC
General Education Transfer Component -- 48 hours									
<i>Communication - 9 hrs</i>									
Written Communication - 6 hrs									
Oral Communication - 3 hrs									
<i>Humanities - 6 hrs</i>									
<i>Behavioral/Social Sciences - 9 hrs</i>									
<i>Natural Sciences - 6 hrs</i>									
<i>Mathematics - 3 hrs</i>									
Minimum College Algebra									
<i>Other Institutional General Education Requirements - up to 15 hrs</i>						MA 113	EMCS 101 or MATH 205		MA 113
Specialty Transfer Component -- 12 hours									
Mathematics - 4 hrs						MA 114	EMCS 102 or MATH 206		MA 114
Physics - 5 hrs						PHY 231* & 241*	PHYS 295* & 298*		PHY 231* & 241*
Chemistry -9 hrs						CHE 105* & 107* & 115*	CHEM 201* & 202* & 203* & 205*		CHE 105* & 107* & 115*

* Course may also meet institutional general education requirements.

Up to 6 hours of science coursework included in the Specialty Component meet institutional natural science general education requirements.

CIVIL ENGINEERING, GENERAL -- CIP 14.0801

TRANSFER MATRIX: Requirements of the Sending Institution

General Education Transfer Component (33 hours) + Institutional General Education (15 hours) = General Education Total (48 hours)

General Education Total (48 hours) + Specialty (12 hours) = Transfer Framework (60 hours)

NOTES: A shaded column indicates the college or university does not confer a baccalaureate degree in this program.
However, course numbers in shaded columns indicate that the transfer framework may be completed at that institution.

The General Education Transfer Component should be completed according to the general education requirements for this major at the sending institution, unless specific course recommendations are listed.

General Education courses may also be counted toward the major, a minor, or a second major.

	EKU	KSU	MOSU	MUSU	NKU	UK	UL	WKU	CC
General Education Transfer Component -- 48 hours									
<i>Communication - 9 hrs</i>									
Written Communication - 6 hrs									
Oral Communication - 3 hrs									
<i>Humanities - 6 hrs</i>									
<i>Behavioral/Social Sciences - 9 hrs</i>									
<i>Natural Sciences - 6 hrs</i>									
<i>Mathematics - 3 hrs</i>						MA 113	EMCS 101 or MATH 205		MA 113
Minimum College Algebra									
<i>Other Institutional General Education Requirements - up to 15 hrs</i>									
Specialty Transfer Component -- 12 hours									
Physics -10 hrs						PHY 231* & 232* & 241* & 242*	PHYS 298* & 299* & 295* & 296*		PHY 231* & 232* & 241* & 242*
Mathematics - 8 hrs						MA 114 & 213	EMCS 102 & 201 or MATH 206 & EMCS 201		MA 114 & 213

* Course may also meet institutional general education requirements.

Up to 6 hours of science coursework included in the Specialty Component meet institutional natural science general education requirements.

COMPUTER ENGINEERING -- CIP 14.0901

TRANSFER MATRIX: Requirements of the Sending Institution

General Education Transfer Component (33 hours) + Institutional General Education (15 hours) = General Education Total (48 hours)
General Education Total (48 hours) + Specialty (12 hours) = Transfer Framework (60 hours)

NOTES: A shaded column indicates the college or university does not confer a baccalaureate degree in this program.
 However, course numbers in shaded columns indicate that the transfer framework may be completed at that institution.

The General Education Transfer Component should be completed according to the general education requirements for this major at the sending institution, unless specific course recommendations are listed.

General Education courses may also be counted toward the major, a minor, or a second major.

	EKU	KSU	MOSU	MUSU	NKU	UK	UL	WKU	CC
General Education Transfer Component -- 48 hours									
<i>Communication - 9 hrs</i>									
Written Communication - 6 hrs									
Oral Communication - 3 hrs									
<i>Humanities - 6 hrs</i>									
<i>Behavioral/Social Sciences - 9 hrs</i>									
<i>Natural Sciences - 6 hrs</i>									
<i>Mathematics - 3 hrs</i>							EMCS 101 or MATH 205		MA 113
Minimum College Algebra									
<i>Other Institutional General Education Requirements - up to 15 hrs</i>									
Specialty Transfer Component -- 12 hours									
Chemistry - 4-5 hrs							CHEM 201* & 203*		CHE 105* & CHM 105*
Physics - 10 hrs							PHYS 295* & 298* & 296* & 299*		PHY 231* & 232* & 241* & 242*
Mathematics - 4 hrs							EMCS 102 or MATH 206		MA 114

* Course may also meet institutional general education requirements.

Up to 6 hours of science coursework included in the Specialty Component meet institutional natural science general education requirements

ELECTRICAL, ELECTRONICS AND COMMUNICATIONS ENGINEERING -- CIP 14.1001

TRANSFER MATRIX: Requirements of the Sending Institution

General Education Transfer Component (33 hours) + Institutional General Education (15 hours) = General Education Total (48 hours)
General Education Total (48 hours) + Specialty (12 hours) = Transfer Framework (60 hours)

NOTES: A shaded column indicates the college or university does not confer a baccalaureate degree in this program.
 However, course numbers in shaded columns indicate that the transfer framework may be completed at that institution.

The General Education Transfer Component should be completed according to the general education requirements for this major at the sending institution, unless specific course recommendations are listed.

General Education courses may also be counted toward the major, a minor, or a second major.

	EKU	KSU	MOSU	MUSU	NKU	UK	UL	WKU	CC
General Education Transfer Component -- 48 hours									
<i>Communication - 9 hrs</i>									
Written Communication - 6 hrs									
Oral Communication - 3 hrs									
<i>Humanities - 6 hrs</i>									
<i>Behavioral/Social Sciences - 9 hrs</i>									
<i>Natural Sciences - 6 hrs</i>									
<i>Mathematics - 3 hrs</i>						MA 113	EMCS 101 or MATH 205		MA 113
Minimum College Algebra									
<i>Other Institutional General Education Requirements - up to 15 hrs</i>									
Specialty Transfer Component -- 12 hours									
Physics - 10 hrs						PHY 231* & 232* & 241* & 242*	PHYS 298* & 299* & 295* &		PHY 231* & 232* & 241* & 242*
Mathematics - 8 hrs						MA 114 & 213	EMCS 102 & 201 or MATH 206 & EMCS 201		MA 114 & 213

* Course may also meet institutional general education requirements.

Up to 6 hours of science coursework included in the Specialty Component meet institutional natural science general education requirements

ENGINEERING PHYSICS -- CIP 14.1201

TRANSFER MATRIX: Requirements of the Sending Institution

General Education Transfer Component (33 hours) + Institutional General Education (15 hours) = General Education Total (48 hours)
General Education Total (48 hours) + Specialty (12 hours) = Transfer Framework (60 hours)

NOTES: A shaded column indicates the college or university does not confer a baccalaureate degree in this program.
 However, course numbers in shaded columns indicate that the transfer framework may be completed at that institution.

The General Education Transfer Component should be completed according to the general education requirements for this major at the sending institution, unless specific course recommendations are listed.

Foreign language may be required for the Bachelor of Arts (BA) degree.

General Education courses may also be counted toward the major, a minor, or a second major.

	EKU	KSU	MOSU	MUSU	NKU	UK	UL	WKU	CC
General Education Transfer Component -- 48 hours									
<i>Communication - 9 hrs</i>									
Written Communication - 6 hrs									
Oral Communication - 3 hrs				COM 161					COM 181
<i>Humanities - 6 hrs</i>									
<i>Behavioral/Social Sciences - 9 hrs</i>									
<i>Natural Sciences - 6 hrs</i>									
<i>Mathematics - 3 hrs</i>				MAT 250					MA 113
Minimum College Algebra									
<i>Other Institutional General Education Requirements - up to 15 hrs</i>									
Specialty Transfer Component -- 12 hours									
Chemistry -10 hrs				CHE 121* & 122*					CHE 105* & 107* & 115*
Physics - 5 hrs				PHY 235* & 236					PHY 231* & 241*
Mathematics - 5 hrs				MAT 308					MA 114

* Course may also meet institutional general education requirements.

Up to 6 hours of science coursework included in the Specialty Component meet institutional natural science general education requirements

INDUSTRIAL / MANUFACTURING ENGINEERING -- CIP 14.1701

TRANSFER MATRIX: Requirements of the Sending Institution

General Education Transfer Component (33 hours) + Institutional General Education (15 hours) = General Education Total (48 hours)
General Education Total (48 hours) + Specialty (12 hours) = Transfer Framework (60 hours)

NOTES: A shaded column indicates the college or university does not confer a baccalaureate degree in this program.
 However, course numbers in shaded columns indicate that the transfer framework may be completed at that institution.

The General Education Transfer Component should be completed according to the general education requirements for this major at the sending institution, unless specific course recommendations are listed.

General Education courses may also be counted toward the major, a minor, or a second major.

	EKU	KSU	MOSU	MUSU	NKU	UK	UL	WKU	CC
General Education Transfer Component -- 48 hours									
<i>Communication - 9 hrs</i>									
Written Communication - 6 hrs									
Oral Communication - 3 hrs									
<i>Humanities - 6 hrs</i>									
<i>Behavioral/Social Sciences - 9 hrs</i>									
<i>Natural Sciences - 6 hrs</i>									
<i>Mathematics - 3 hrs</i>							EMCS 101 or MATH 205		MA 113
Minimum College Algebra									
<i>Other Institutional General Education Requirements - up to 15 hrs</i>									
Specialty Transfer Component -- 12 hours									
Mathematics - 4 hrs							EMCS 102 or MATH 206		MA 114
Chemistry - 9 hrs							CHEM 201* & 203* & 202* & 205*		CHE 105* & 107* & 115*
Physics - 5 hrs							PHYS 295* & 298*		PHY 231* & 241*

* Course may also meet institutional general education requirements.

Up to 6 hours of science coursework included in the Specialty Component meet institutional natural science general education requirements

MATERIALS ENGINEERING -- CIP 14.1801

TRANSFER MATRIX: Requirements of the Sending Institution

General Education Transfer Component (33 hours) + Institutional General Education (15 hours) = General Education Total (48 hours)
General Education Total (48 hours) + Specialty (12 hours) = Transfer Framework (60 hours)

NOTES: A shaded column indicates the college or university does not confer a baccalaureate degree in this program.
 However, course numbers in shaded columns indicate that the transfer framework may be completed at that institution.

The General Education Transfer Component should be completed according to the general education requirements for this major at the sending institution, unless specific course recommendations are listed.

General Education courses may also be counted toward the major, a minor, or a second major.

	EKU	KSU	MOSU	MUSU	NKU	UK	UL	WKU	CC
General Education Transfer Component -- 48 hours									
<i>Communication - 9 hrs</i>									
Written Communication - 6 hrs									
Oral Communication - 3 hrs									
<i>Humanities - 6 hrs</i>									
<i>Behavioral/Social Sciences - 9 hrs</i>									
<i>Natural Sciences - 6 hrs</i>									
<i>Mathematics - 3 hrs</i>						MA 113			MA 113
Minimum College Algebra									
<i>Other Institutional General Education Requirements - up to 15 hrs</i>									
Specialty Transfer Component -- 12 hours									
Mathematics - 4 hrs						MA 114			MA 114
Physics - 5 hrs						PHY 231* & 241*			PHY 231* & 241*
Chemistry - 9 hrs						CHE 105* & 107* & 115*			CHE 105* & 107* & 115*

* Course may also meet institutional general education requirements.

Up to 6 hours of science coursework included in the Specialty Component meet institutional natural science general education requirements

MECHANICAL ENGINEERING -- CIP 14.1901

TRANSFER MATRIX: Requirements of the Sending Institution

General Education Transfer Component (33 hours) + Institutional General Education (15 hours) = General Education Total (48 hours)
General Education Total (48 hours) + Specialty (12 hours) = Transfer Framework (60 hours)

NOTES: A shaded column indicates the college or university does not confer a baccalaureate degree in this program.
 However, course numbers in shaded columns indicate that the transfer framework may be completed at that institution.

The General Education Transfer Component should be completed according to the general education requirements for this major at the sending institution, unless specific course recommendations are listed.

General Education courses may also be counted toward the major, a minor, or a second major.

	EKU	KSU	MOSU	MUSU	NKU	UK	UL	WKU	CC
General Education Transfer Component -- 48 hours									
<i>Communication - 9 hrs</i>									
Written Communication - 6 hrs									
Oral Communication - 3 hrs									
<i>Humanities - 6 hrs</i>									
<i>Behavioral/Social Sciences - 9 hrs</i>									
<i>Natural Sciences - 6 hrs</i>									
<i>Mathematics - 3 hrs</i>						MA 113	EMCS 101 or MATH 205		MA 113
Minimum College Algebra									
<i>Other Institutional General Education Requirements - up to 15 hrs</i>									
Specialty Transfer Component -- 12 hours									
Math - 4 hrs						MA 114	EMCS 102 or MATH 206		MA 114
Physics -10 hrs						PHY 231* & 232* & 241* & 242*	PHYS 298* & 299* & 295* & 296*		PHY 231* & 232* & 241* & 242*
Chemistry - 6 hrs						CHE 105* & 107*	CHEM 201* & 202*		CHE 105* & 107*

* Course may also meet institutional general education requirements.

Up to 6 hours of science coursework included in the Specialty Component meet institutional natural science general education requirements.

MINING AND MINERAL ENGINEERING -- CIP 14.2101

TRANSFER MATRIX: Requirements of the Sending Institution

General Education Transfer Component (33 hours) + Institutional General Education (15 hours) = General Education Total (48 hours)
General Education Total (48 hours) + Specialty (12 hours) = Transfer Framework (60 hours)

NOTES: A shaded column indicates the college or university does not confer a baccalaureate degree in this program.
 However, course numbers in shaded columns indicate that the transfer framework may be completed at that institution.

The General Education Transfer Component should be completed according to the general education requirements for this major at the sending institution, unless specific course recommendations are listed.

General Education courses may also be counted toward the major, a minor, or a second major.

	EKU	KSU	MOSU	MUSU	NKU	UK	UL	WKU	CC
General Education Transfer Component -- 48 hours									
<i>Communication - 9 hrs</i>									
Written Communication - 6 hrs									
Oral Communication - 3 hrs									
<i>Humanities - 6 hrs</i>									
<i>Behavioral/Social Sciences - 9 hrs</i>									
<i>Natural Sciences - 6 hrs</i>									
<i>Mathematics - 3 hrs</i>									
Minimum College Algebra						MA 113			MA 113
<i>Other Institutional General Education Requirements - up to 15 hrs</i>									
Specialty Transfer Component -- 12 hours									
Mathematics - 8 hrs						MA 114 & 213			MA 114 & 213
Chemistry - 6 hrs						CHE 105* & 107*			CHE 105* & 107*
Physics - 5 hrs						PHY 231* & 241*			PHY 231* & 241*

* Course may also meet institutional general education requirements.

Up to 6 hours of science coursework included in the Specialty Component meet institutional natural science general education requirements